

6HS6

Sharp-Cutoff Pentode

7-PIN MINIATURE TYPE

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

Voltage (AC or DC)	6.3 ^a	6.3 ± 0.6	volts
Current	0.450 ± 0.030	0.450 ^b	amp
Warm-up time (Average)	11	—	sec

Peak heater-cathode voltage:

Heater negative with respect to cathode	200	max.	volts
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Heater positive with respect to cathode	200 ^c	max.	volts
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Direct Interelectrode Capacitances:^d

Grid No.1 to plate	0.006	max.	μf
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater	8.8		μf
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater	5.2		μf

Characteristics, Class A₁ Amplifier:

Plate Supply Voltage	75	150	volts
Grid No.3	Connected to cathode at socket		
Grid-No.2 Supply Voltage	75	75	volts
Grid-No.1 Supply Voltage	0	0	volts
Cathode Resistor	68	68	ohms
Amplification Factor ^e	50	—	
Plate Resistance (Approx.)	—	0.5	megohm
Transconductance	—	9500	μmhos
Plate Current	—	8.8	ma
Grid-No.2 Current	—	2.8	ma
Grid-No.1 Voltage (Approx.) for plate μa = 20	—	—	—4 volts

Mechanical:

Operating Position	Any		
Type of Cathode	Coated Unipotential		
Maximum Overall Length	2-1/8"		
Maximum Seated Length	1-7/8"		
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" ± 3/32"		
Diameter	0.650" to 0.750"		
Dimensional Outline	See <i>General Section</i>		
Bulb	T5-1/2		
Base	Small-Button Miniature 7-Pin (JEDEC No.E7-1)		



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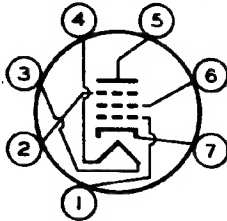
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DATA 1
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Basing Designation for BOTTOM VIEW. 7BK

Pin 1-Grid No.1
Pin 2-Grid No.3,
Internal
Shield
Pin 3-Heater



Pin 4-Heater
Pin 5-Plate
Pin 6-Grid No.2
Pin 7-Cathode

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE. 300 max. volts
GRID No.3 (SUPPRESSOR GRID). . . *Connect to cathode at socket*
GRID-No.2 (SCREEN-GRID)
SUPPLY VOLTAGE 300 max. volts
GRID-No.2 VOLTAGE. See *Grid-No.2 Input Rating Chart* at front of Receiving Tube Section
GRID-No.1 (CONTROL-GRID) VOLTAGE:
Negative-bias value. 50 max. volts
Positive-bias value. 0 max. volts
GRID-No.2 INPUT:
For grid-No.2 voltages up to 150 volts . . . 1 max. watt
For grid-No.2 voltages between 150 and
300 volts. See *Grid-No.2 Input Rating Chart* at front of Receiving Tube Section
PLATE DISSIPATION. 3 max. watts

Maximum Circuit Values:

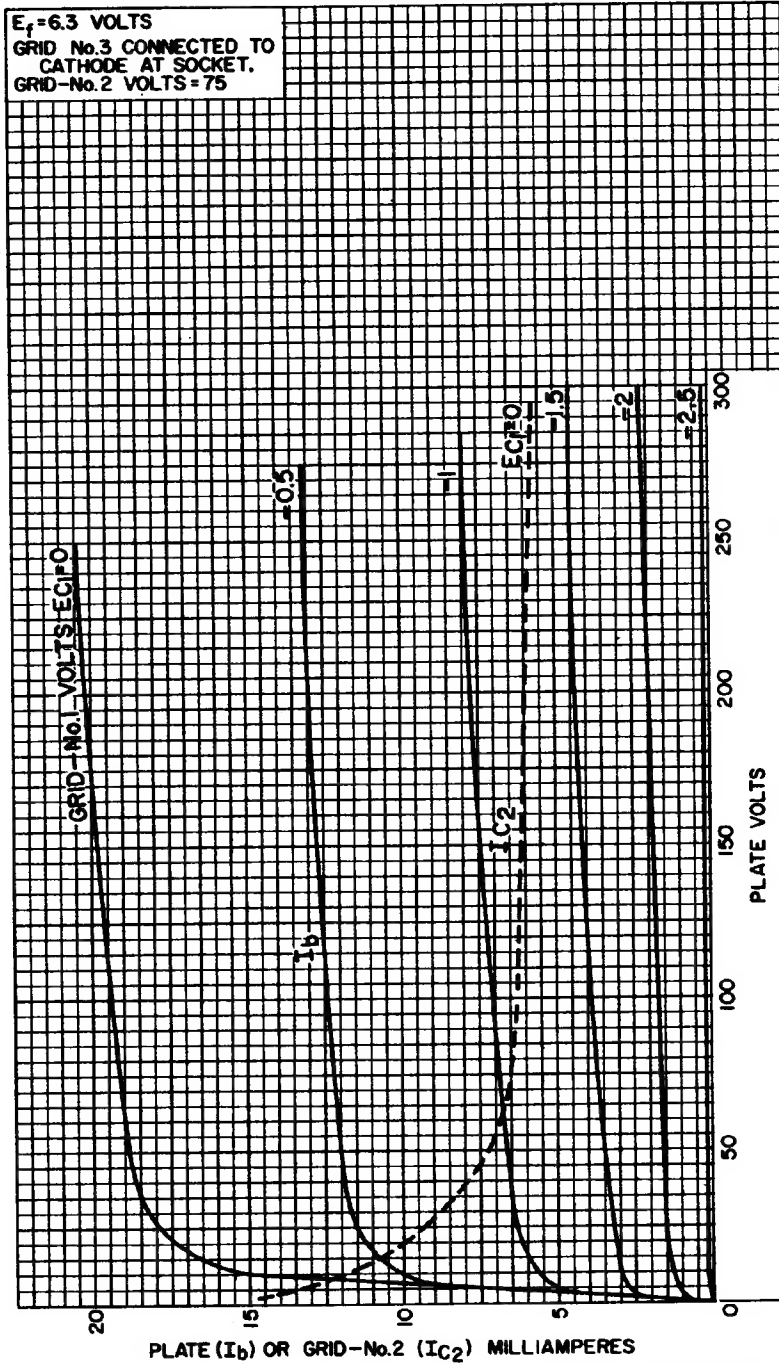
Grid-No.1-Circuit Resistance:
For fixed-bias operation 0.5 max. megohm
For cathode-bias operation 1 max. megohm

- ^a At heater amperes = 0.450.
- ^b At heater volts = 6.3.
- ^c The dc component must not exceed 100 volts.
- ^d Without external shield.
- ^e Triode connection (Grid No.2 connected to plate).



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AVERAGE CHARACTERISTICS



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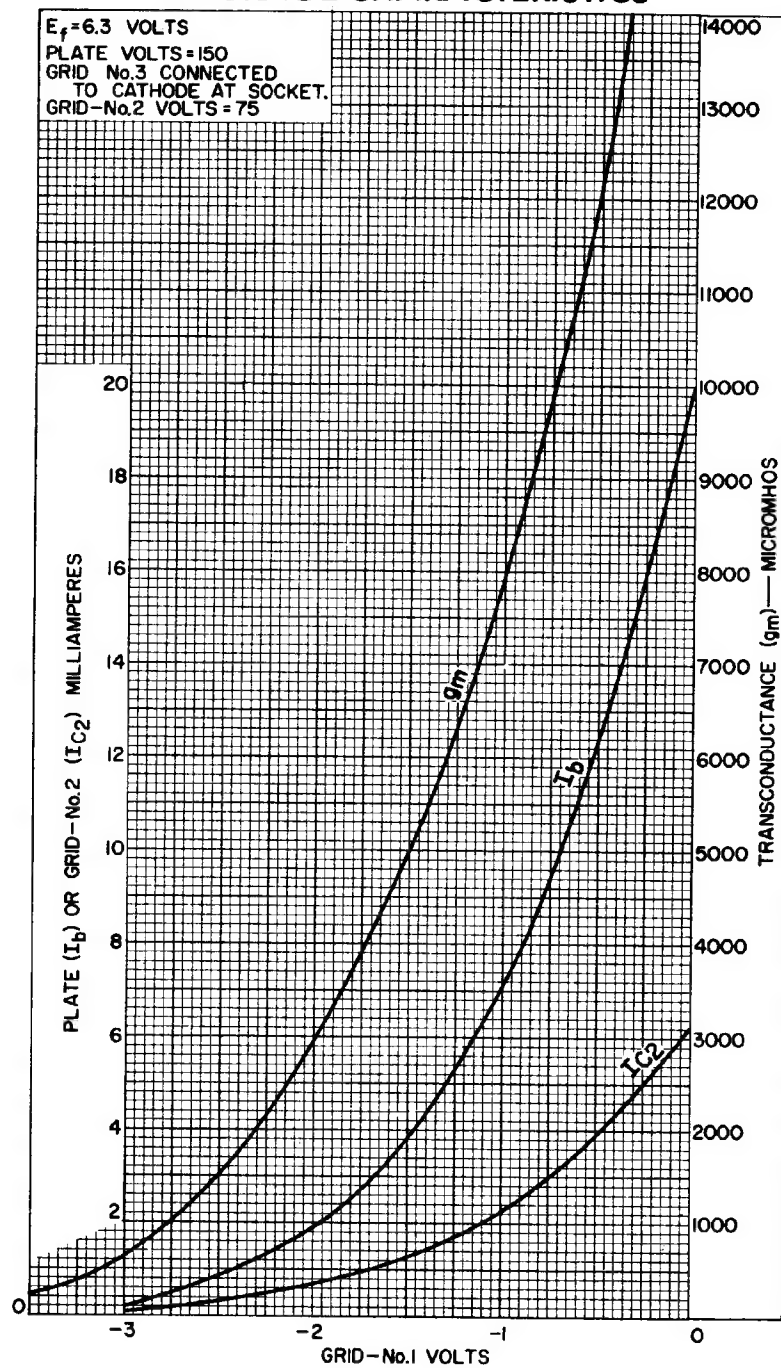


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AVERAGE CHARACTERISTICS



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